



TONE TRACER & REMOTE

DATASHEET

R171053



TREND NETWORKS

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Precision Cable Tracing for SecuriTEST IP & SignalTEK QT

The Tone Tracer & Remote is a professional-grade diagnostic pair designed to overcome the limitations of traditional analog tracers. Using a high-frequency digital signal carrier, it enables technicians and engineers to perform accurate cable tracing and wiremap verification during network installation and maintenance.

The Digital Probe is compatible with both SecuriTEST IP (OS11) and SignalTEK QT for cable tracing. The Wiremap Remote is designed for seamless data-link testing with the SecuriTEST IP platform only.

Key Functions Summary

- **Digital Precision:** High-fidelity tone detection that ignores 50/60Hz hum and electronic and magnetic interference (EMI) noise. This ensures accurate cable identification over longer distances without the static noise common in analog tracers.
- **Active PoE Detection:** Instantly identifies the presence of Power over Ethernet(PoE) and detects specific pin usage (pair assignment) to verify power delivery at the outlet by PoE switch or mid-span PoE injector.
- **Dynamic Auto-Scan Wiremap:** Once a cable is located using tone tracing and connected to the probe's remote port, the generator automatically detects the remote and transitions to a dynamic, pin-by-pin wiremap scan—eliminating the need to return to the generator to change test modes.
- **Termination Fault Diagnostics:** Advanced logic distinguishes between cable faults and RJ45 plug (connector) termination faults, enabling targeted field repairs.
- **High-Output Illumination:** Integrated dual-LED flashlight delivers clear visibility in dark server racks and ceiling voids.
- **Stealth & Noise Monitoring:** 3.5mm earphone jack with mute for discreet operation or clear monitoring in loud environments.

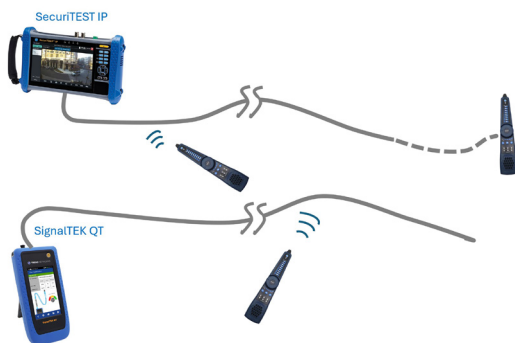


Diagram illustrating SecuriTEST IP and SignalTEK QT used as tone generators, with connected cables traced using the R171053 probe. The SecuriTEST IP is also shown connected to the cable, with the opposite end attached to the built-in remote for wiremap testing.

Technical Specification

Tone Detection	Carrier frequency: 129KHz; Signal strength display: 8 LEDs ; Sensitivity adjustment, Audio: beep sound.
Wiremap test	Test STP, UTP 8 pins, each pin LED and shield LED; Connector termination error; straight; short; cross; Others; 100Mb/s & 1Gb/s.
Tone Generator supported	SecuriTEST IP (OS11), SignalTEK QT.
Audio	Internal: speaker; external: 3.5mm earphone jack; Mute: On/Off.
PoE	Voltage detection and pin usage assignment via LEDs.
Flash light	Dual white LED, 12 lm.
Built-in Remote	Active remote for wiremap testing Remote ID: 188; Works with SecuriTEST IP only.
Power supply	2xAA per unit; Battery type: Alkaline, NiMH rechargeable, Li-ion polymer rechargeable. Battery life: 16 hours typical.
Display	17 x LEDs for level, wiremap, PoE test.
Temperature & humidity	-10°C (14°F) to 45°C (113°F) operation, -20°C (-4°F) to 70°C (158°F) storage. (non condensing).
Vibration & shocking	Random, 2 g, 5 Hz – 500 Hz; Shock 1 m drop test still operational.
Dimension & weight	Size: 218x45x30mm/8.6x1.8x1.2in (max); Weight: 156g/5.5oz (net including battery).
Standard compliance	EN55032:2017 EMI, EN55035:2015 EMC, CE & UKCA.
Applications	Cable tracing: Copper cabling media, including shielded (STP) and unshielded (UTP) cable; coaxial cable; single pair control, security, generic cabling. 10/100/1000 Base-T datacom networks cables. Wiremap test (SecuriTEST IP only): pin connection & order, cable or connector termination error; ID remote.

Ordering Information

Part number	Item Description
R171053	1 x Tone Tracer & Remote, 2 x AA Alkaline batteries, 1 x Quick Reference Guide multi-languages

Associated Products

SecuriTEST IP: All-in-one installation and troubleshooting tester for digital/IP, HD-TVI, CVI, AHD, and Analog CCTV systems. (Compatible with Tone Trace & Remote R171053 for cable tracing and wiremap test).

SignalTEK QT: Copper and fiber cable qualifier with Wi-Fi and network test functions. (Compatible with Tone Tracer & Remote R171053 for cable digital tracing).





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171862 Rev 1

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